

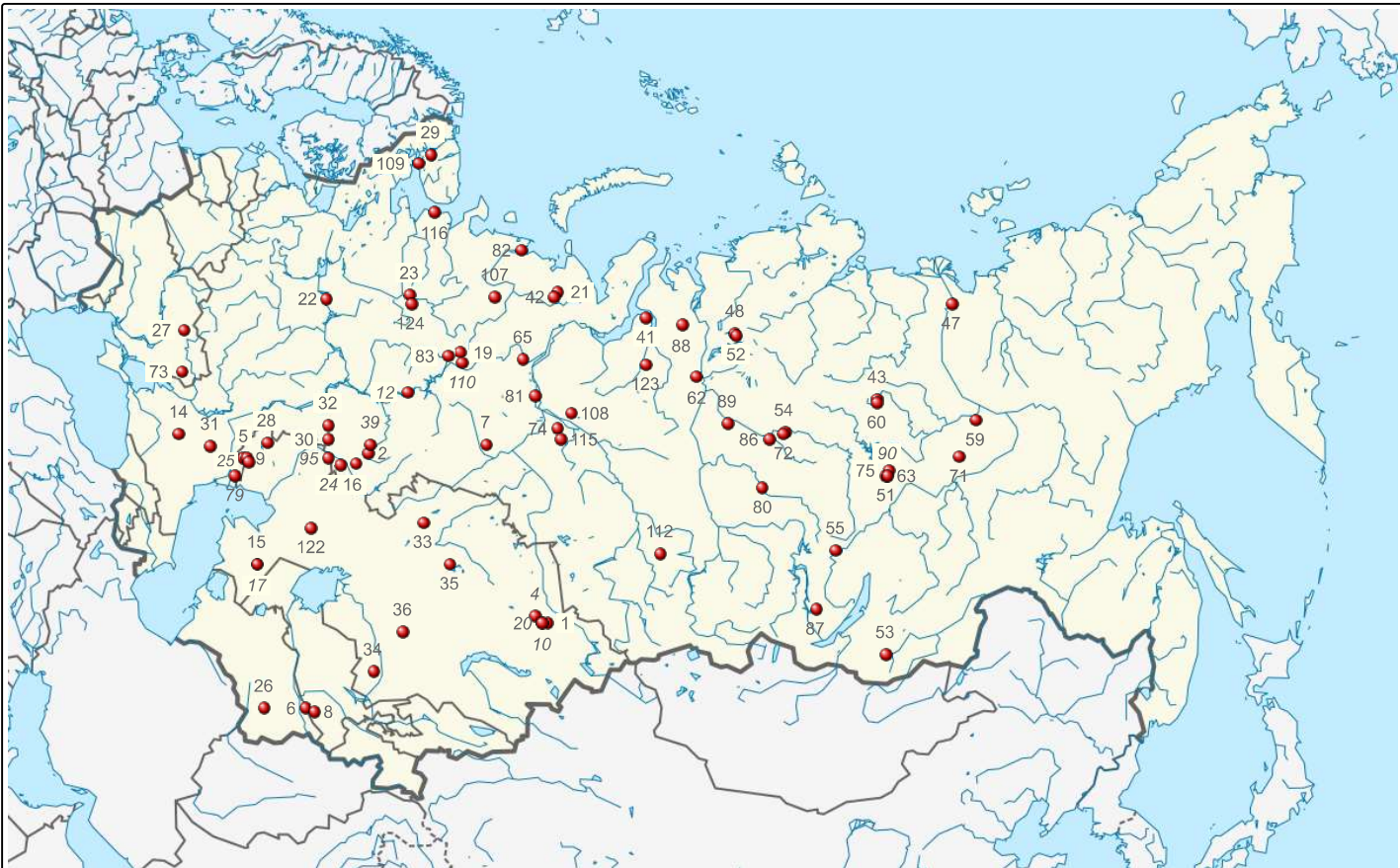
ВИКИПЕДИЯ

List of peaceful nuclear explosions in the USSR

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Between 1965 and 1988, 124 peaceful nuclear explosions were carried out on the territory of the USSR as part of the implementation of the state program “Nuclear Explosions for the National Economy” , of which 117 were outside the boundaries of nuclear weapons test sites ^{[1] [2] [3]} . All nuclear explosions were **underground** ^{[1] [2]} .

According to the ratio of “number of explosions (number of charges and devices)”: 80 (83) were carried out in the RSFSR , 38 (46) in the Kazakh SSR , 2 (2) in the Ukrainian SSR , 2 (2) in the Uzbek SSR , 1 (1) in the Turkmen SSR . The overwhelming majority of charge explosions (130) were carried out in boreholes, only one in a mine and four in adits ^[4] .



Map of locations of peaceful nuclear explosions in the USSR (the numbering order corresponds to the list; also for those in italics: 2 (3, 77, 78), 4 (44), 10 (11), 12 (13), 17 (18), 20 (45), 25 (38), 26 (46, 49, 50, 56-58, 61, 64, 66-70, 76), 39 (40), 79 (84-85, 91-94, 98-103, 113-114), 90 (119-121), 95 (96-97, 104-106), 110 (111, 117-118))

Content

List of peaceful nuclear explosions

Comments

See also

Notes

Literature

Links

List of peaceful nuclear explosions

Below is a list of peaceful nuclear explosions conducted in the USSR. For each explosion, **the date and time** of the explosion (Greenwich Mean Time), **code name** , **location** , depth of the nuclear charge (**H**) in meters , energy release (**E**) of the charge in kilotons of TNT equivalent , seismic magnitude (**m_b** ^{[comm. 1] [5]}), and **additional information** (description and purposes) are given.

No. ◊	Date and time ◊	Conventional name ◊	Venue ◊	H, m ◊	E, ct ◊	m _b ◊	Additional information	Notes
1	January 15, 1965 6:00 AM	<u>Chagan</u>	<u>Semipalatinsk test site</u> 49°56′06″ N 79°00′29″ E	178.0	140,00	6.0	The creation of a reservoir by means of an explosion for discharge in well No. 1004. It is the first industrial explosion	[6][1][2][7]

No. ↕	Date and time ↕	Conventional name ↕	Venue ↕	H, m ↕	E, ct ↕	m _b ↕	Additional information	Notes
2	March 30, 1965 8:00	Butane-1 Butane-2	<u>Bashkir ASSR , RSFSR 53°06' s. w. 55°52' E. d.</u>	1341.0 1375.0	2.30 2.30		The first group explosion in wells No. 617 and 618 under the oil production intensification program	[6] [1] [2] [7]
3	June 10, 1965 7:00	Butane	Bashkir ASSR, RSFSR	1350,0	7.60		Explosion in well #622 to intensify oil production	[6] [1] [2] [8]
4	October 14, 1965 4:00 AM	Sary-Uzen	Semipalatinsk test site	48.0	1.10		Blowout in well #1003	[6] [1] [2] [8]
5	April 22, 1966 2:58	Azgir	<u>Guryevsk region , Kazakh SSR</u>	161.0	1.10	4.7	Blast in well No. A-1 to create cavities in a rock salt deposit	[6] [9] [2] [8]
6	September 30, 1966 6:00 AM	Urta-Bulak	<u>Kashkadarya region , Uzbek SSR</u>	1532,0	30,00	5.1	Gas fountains blocked by explosion in well No. 1-C	[6] [9] [10] [8]
7	October 6, 1967 7:00	Tavda	<u>Tyumen region , RSFSR</u>	172.0	0.30	4.7	Blasting a borehole to create underground storage tanks	[6] [9] [10] [11]
8	May 21, 1968 3:59	Pamuk	<u>Kashkadarya region , Uzbek SSR</u>	2440,0	47,00	5.4	Explosion in a well to block gas fountains	[6] [9] [10] [11]
9	July 1, 1968 4:02	Azgir	Guryev region, Kazakh SSR	600,0	27.00	5.5	Blast in well No. A-2 to create cavities in rock salt massif	[6] [9] [10] [11]
10	October 21, 1968 3:52	<u>Telkem</u>	Semipalatinsk test site	31.4	0.24		Explosion for release in well #2308 (formation of a reservoir)	[6] [9] [10] [11]
11	November 12, 1968 7:30	<u>Telkem-2</u>	Semipalatinsk test site	31.4 31.4 31.4	0.24 0.24 0.24		Calibration blast for discharge in wells No. 2305-2307 with the formation of a trench (later a reservoir)	[6] [9] [10] [11]
12	September 2, 1969 5:00	Griffin	<u>Perm region , RSFSR</u>	1212,0	7.60	4.9	Explosion in well No. 1001 to intensify oil and gas production	[6] [9] [10] [12]
13	September 8, 1969 5:00 AM	Griffin	Perm region, RSFSR	1208,0	7.60	4.9	Explosion in well No. 1002 to intensify oil and gas production	[6] [9] [10] [12]
14	September 26, 1969 7:00 AM	Takhta-Kugulta	<u>Stavropol Krai , RSFSR</u>	712,0	10.00	5.6	Well blast to enhance gas production	[6] [9] [10] [12]
15	December 6, 1969 7:03	Well 2-T	<u>Mangyshlak Region , Kazakh SSR</u>	407,0	30,00	5.8	Borehole blasting to create sinkholes and	[6] [9] [10] [12]

No. ♦	Date and time ♦	Conventional name ♦	Venue ♦	H, m ♦	E, ct ♦	m _b ♦	Additional information	Notes
							solve engineering seismology issues	
16	June 25, 1970 5:00 AM	Highway	<u>Orenburg region</u> , RSFSR	702.0	2.30	4.9	Explosion in well No. 1T-2S for the purpose of creating gas storage tanks	[6] [13] [10] [12]
17	December 12, 1970 7:01	Well 6-T	Mangyshlak region, Kazakh SSR	740,0	80,00	6.1	Blasting in a borehole to create sinkholes for reservoirs and solve engineering seismology issues	[6] [13] [10] [12]
18	December 23, 1970 7:01	Well 1-T	Mangyshlak region, Kazakh SSR	470,0	75,00	6.1	Blasting in a borehole to create sinkholes for reservoirs and solve engineering seismology issues	[6] [13] [10] [12]
19	March 23, 1971 7:00 AM	<u>Taiga</u>	Perm region, RSFSR	128.0 128.0 128.0	15.00 15.00 15.00	5.6	Explosion in wells No. 1B-3B for release with the purpose of creating a trench	[6] [13] [10] [14]
20	April 9, 1971	Adit 148/1	Semipalatinsk test site		0.23		Explosion in a tunnel for self-burial of formed radioactive products	[13] [10] [14]
21	July 2, 1971 5:00 PM	Globe-4	<u>Komi ASSR</u> , Russian SFSR	542.0	2.30	4.7	The first explosion for the purpose of deep seismic sounding of the Earth, well No. GB-4	[6] [13] [15] [14]
22	September 19, 1971 11:00	<u>Globe-1</u>	<u>Ivanovo region</u> , RSFSR	610,0	2.30	4.5	Explosion in borehole No. GB-1 for the purpose of deep seismic sounding of the Earth	[6] [13] [15] [14]
23	October 4, 1971 10:00	Globus-2	<u>Arkhangelsk region</u> , RSFSR	595,0	2.30	5.1	Explosion in borehole No. GB-2 for the purpose of deep seismic sounding of the Earth	[6] [13] [15] [14]
24	October 22, 1971 5:00 AM	Sapphire	Orenburg region, RSFSR	1140,0	15.00	5.3	Explosion in well No. E-2, creation of a cavity for gas storage	[16] [13] [15] [17]
25	December 22, 1971 7:00	Azgir	Guryev region, Kazakh SSR	986,0	64,00	6.0	Explosion in well No. A-3, creating a cavity in a rock salt massif	[16] [13] [15] [17]
26	April 11, 1972 6:00 AM	Crater	<u>Mary region</u> , Turkmen SSR	1720,0	15.00	4.9	Explosion in a well to shut off a gas fountain	[16] [13] [15] [17]

No. ↕	Date and time ↕	Conventional name ↕	Venue ↕	H, m ↕	E, ct ↕	m _b ↕	Additional information	Notes
27	July 9, 1972 7:00 AM	<u>Torch</u>	<u>Kharkov region</u> , Ukrainian SSR	2483,0	3.80	4.8	Explosion in a well to shut off a gas fountain	[16] [13] [15] [17]
28	August 20, 1972 3:00 AM	Region-3	Ural region , Kazakh SSR	489,0	6.60	5.7	Explosion in well No. R-3 for the purpose of deep seismic sounding of the Earth	[16] [13] [15] [17]
29	September 4, 1972 7:00 AM	<u>Dnepr-1</u>	<u>Murmansk region</u> , RSFSR	131.0	2.10	4.5	Explosion in a tunnel for developing a technological process of ore crushing	[16] [18] [15] [17]
30	September 21, 1971 9:00	Region-1	Orenburg region, RSFSR	485,0	2.30	5.1	Explosion in well No. R-1 for the purpose of deep seismic sounding of the Earth	[16] [18] [15] [17]
31	October 3, 1972 9:00	Region-4	<u>Kalmyk ASSR</u> , RSFSR	485,0	6.60	5.8	Explosion in well No. R-4 for the purpose of deep seismic sounding of the Earth	[16] [18] [15] [19]
32	November 24, 1972 9:00	Region-2	Orenburg region, RSFSR	672,0	2.30	4.7	Explosion in well No. R-2 for the purpose of deep seismic sounding of the Earth	[16] [18] [15] [19]
33	November 24, 1972 10:00	Region-5	<u>Kustanai region</u> , Kazakh SSR	423,0	6.60	5.2	Explosion in well No. R-5 for the purpose of deep seismic sounding of the Earth	[16] [18] [15] [19]
34	August 15, 1973 2:00 AM	Meridian-3	<u>Chimkent region</u> , Kazakh SSR	600,0	6.30	5.3	Explosion in borehole No. MN-3 for the purpose of deep seismic sounding of the Earth	[16] [18] [15] [19]
35	August 28, 1973 3:00 AM	Meridian-1	<u>Tselinograd region</u> , present-day <u>Karaganda region</u> , Kazakh SSR	395,0	6.30	5.2	Explosion in borehole No. MN-1 for the purpose of deep seismic sounding of the Earth	[16] [18] [15] [19]
36	September 19, 1973 3:00	Meridian-2	Chimkent region, Kazakh SSR	400,0	6.30	5.2	Explosion in borehole No. MN-2 for the purpose of deep seismic sounding of the Earth	[16] [18] [15] [19]
37	September 30, 1973 5:00 AM	Sapphire	Orenburg region, RSFSR	1145,0	10.00	5.2	Explosion in well No. E-3 to create cavities for gas storage	[16] [18] [15] [19]
38	October 26, 1973 6:00 AM	Kama-2	Bashkir ASSR, RSFSR	2026.0	10.00	4.8	Explosion in a well for the purpose of	[16] [18] [15] [20]

No. ↕	Date and time ↕	Conventional name ↕	Venue ↕	H, m ↕	E, ct ↕	m _b ↕	Additional information	Notes
							burying industrial waste	
39	July 8, 1974 6:00 AM	Kama-1	Bashkir ASSR, RSFSR	2123,0	10.00	4.6	Explosion in a well for the purpose of burying industrial waste	[16] [18] [15] [20]
40	August 14, 1974 15:00	Horizon-2	<u>Yamalo-Nenets Autonomous Region</u> , RSFSR	534.0	7.60	5.5	Explosion in well No. G-2 for the purpose of deep seismic sounding of the Earth	[16] [18] [15] [20]
41	April 29, 1974 15:00	Horizon-1	Komi ASSR, RSFSR	583,0	7.60	5.2	Explosion in well No. G-1 for the purpose of deep seismic sounding of the Earth	[16] [18] [15] [20]
42	October 2, 1974 1:00 AM	Crystal	<u>Yakut ASSR</u> , Russian SFSR	98.0	1.70	4.6	Explosion in a borehole to create a tailings dam	[16] [21] [15] [20]
43	December 7, 1974 6:00 AM	Lapis lazuli	Semipalatinsk test site	75.0	1.70	4.7	Explosion in borehole No. R-1 to create a dam by destroying a mountain slope	[16] [21] [15] [20]
44	December 16, 1974	Adit 148/5	Semipalatinsk test site		3.80		Explosion to test technology for self-burial of nuclear fission products	[21] [15] [20]
45	April 25, 1975 5:00 AM	Azgir	Guryev region, Kazakh SSR	600,0	0.35	4.9	Re-explosion in borehole #A-2-2 in rock salt cavity to obtain transplutonium elements	[16] [21] [22] [20]
46	August 12, 1975 15:00	Horizon-4	Yakut ASSR, RSFSR	496,0	7.60	5.2	Explosion in well No. G-4 for the purpose of deep seismic sounding of the Earth	[16] [21] [22] [23]
47	September 29, 1975 11:00	Horizon-3	<u>Taimyr NO</u> , RSFSR	834,0	7.60	4.9	Explosion in well No. G-3 for the purpose of deep seismic sounding of the Earth	[16] [21] [22] [23]
48	March 29, 1976 7:00 AM	Azgir	Guryev region, Kazakh SSR	986,0	10.00	4.4	Repeated blast in well No. A-3-2 in a rock salt cavity to reduce seismic effect	[16] [21] [22] [23]
49	July 29, 1976 5:00 AM	Azgir	Guryev region, Kazakh SSR	1000,0	58,00	5.9	Blasting in borehole #A-4 to create cavities in rock salt massif	[16] [21] [22] [23]
50	November 5, 1976 4:00	Oka	Yakut ASSR, RSFSR	1522,0	15.00	4.9	Blast in well #42 to intensify production in oil and gas formations	[16] [21] [22] [23]

No. ↕	Date and time ↕	Conventional name ↕	Venue ↕	H, m ↕	E, ct ↕	m _b ↕	Additional information	Notes
51	July 26, 1977 5:00 PM	Meteorite-2	Taimyr Autonomous Okrug, RSFSR	850,0	15.00	4.9	Explosion in borehole No. M2 for the purpose of deep seismic sounding of the Earth	[16] [21] [22] [23]
52	August 11, 1977 10:00 PM	Meteorite-5	<u>Buryat ASSR</u> , RSFSR	494,0	8.50	5.2	Explosion in borehole No. M5 for the purpose of deep seismic sounding of the Earth	[24] [21] [22] [23]
53	August 21, 1977 10:00 PM	Meteorite-3	<u>Evenki Autonomous Okrug</u> , RSFSR	600,0	8.50	5.0	Explosion in borehole No. M3 for the purpose of deep seismic sounding of the Earth	[24] [21] [22] [23]
54	September 10, 1977 4:00 PM	Meteorite-4	<u>Irkutsk region</u> , RSFSR	550,0	7.60	4.8	Explosion in borehole No. M4 for the purpose of deep seismic sounding of the Earth	[24] [21] [22] [25]
55	September 30, 1977 7:00	Azgir	Guryev region, Kazakh SSR	1500,0	10.00	5.1	Blasting in borehole #A-5 to create cavities in rock salt massif	[24] [21] [22] [25]
56	October 14, 1977 7:00 AM	Azgir	Guryev region, Kazakh SSR	600,0	0.10	3.4	Third explosion in the cavity of well No. A-2-3 to obtain transplutonium elements	[24] [21] [22] [25]
57	October 30, 1977	Azgir	Guryev region, Kazakh SSR	600,0	0.01		The fourth explosion in the cavity of well No. A-2-4 to obtain transplutonium elements	[24] [26] [22] [25]
58	August 9, 1978 6:00 PM	Kraton-4	Yakut ASSR, RSFSR	567,0	22.00	5.6	Explosion in borehole No. KR-4 for the purpose of deep seismic sounding of the Earth	[24] [26] [22] [25]
59	August 24, 1978 6:00 PM	Kraton-3	Yakut ASSR, RSFSR	577,0	22.00	5.1	Explosion in borehole No. KR-3 for the purpose of deep seismic sounding of the Earth	[24] [26] [22] [25]
60	September 12, 1978 5:00	Azgir	Guryev region, Kazakh SSR	600,0	0.08	3.0	Fifth explosion in the cavity of well No. A-2-5 to obtain transplutonium elements	[24] [26] [22] [25]

No. ↕	Date and time ↕	Conventional name ↕	Venue ↕	H, m ↕	E, ct ↕	m _b ↕	Additional information	Notes
61	September 21, 1978 15:00	Kraton-2	<u>Krasnoyarsk Krai</u> , RSFSR	886,0	15.00	5.2	Explosion in borehole No. KR-2 for the purpose of deep seismic sounding of the Earth	[24] [26] [22] [27]
62	October 8, 1978 0:00	Vyatka	Yakut ASSR, RSFSR	1545,0	15.00	5.2	Blast in well #43 to intensify production in oil and gas formations	[24] [26] [22] [27]
63	October 17, 1978 5:00 AM	Azgir	Guryev region, Kazakh SSR	971,0	73,00	5.8	Group blast in well No. A-7 (0.001-20 and 20-150 kt) to create cavities in rock salt massif	[24] [26] [22] [27]
64	October 17, 1978 2:00 PM	Kraton-1	<u>Khanty-Mansiysk Autonomous Okrug</u> , RSFSR	593,0	22.00	5.5	Explosion in borehole No. KR-1 for the purpose of deep seismic sounding of the Earth	[24] [26] [28] [27]
65	November 30, 1978 8:00	Azgir	Guryev region, Kazakh SSR	600,0	0.06	3.1	Sixth explosion in the cavity of well No. A-2-6 to obtain transplutonium elements	[24] [26] [28] [27]
66	December 18, 1978 8:00	Azgir	Guryev region, Kazakh SSR	630,0	103,00	6.0	Blast in well No. A-9 to create cavities in rock salt massif	[24] [26] [28] [27]
67	January 10, 1979 8:00	Azgir	Guryev region, Kazakh SSR	600,0	0.50	4.4	The seventh explosion in the cavity of well No. A-2-7 to obtain transplutonium elements	[24] [26] [28] [27]
68	January 17, 1979 8:00 AM	Azgir	Guryev region, Kazakh SSR	995,0	65,00	6.0	Group blast in well No. A-8 (0.001-20 and 20-150 kt) to create cavities in rock salt massif	[24] [26] [28] [29]
69	July 14, 1979 5:00 AM	Azgir	Guryev region, Kazakh SSR	982,0	21.00	5.6	Group explosion in well No. A-11 (three explosions of 0.001-20 kt) to create cavities in the rock salt massif	[24] [26] [28] [29]
70	August 12, 1979 6:00 PM	Kimberlite-4	Yakut ASSR, RSFSR	982,0	8.5	4.9	Explosion in borehole No. KM-4 for the purpose of deep seismic sounding of the Earth	[24] [26] [28] [29]
71	September 6, 1979 6:00 PM	Kimberlite-3	Evenki Autonomous Okrug, RSFSR	599,0	8.5	4.9	Explosion in borehole No. KM-3 for the purpose	[24] [30] [28] [29]

No. ↕	Date and time ↕	Conventional name ↕	Venue ↕	H, m ↕	E, ct ↕	m _b ↕	Additional information	Notes
							of deep seismic sounding of the Earth	
72	September 16, 1979 8:00	<u>Cleavage</u>	<u>Donetsk region</u> , Ukrainian SSR	903,0	0.30		Explosion in a mine to prevent coal dust and methane emissions	[24] [30] [28] [29]
73	October 4, 1979 4:00 PM	Kimberlite-1	Khanty-Mansiysk Autonomous Okrug, RSFSR	837,0	22.00	5.4	Explosion in borehole No. KM-1 for the purpose of deep seismic sounding of the Earth	[24] [30] [28] [29]
74	October 8, 1979 9:00 PM	Sheksna	Yakut ASSR, RSFSR	1545,0	15.00	4.9	Explosion in well #47 to intensify production in oil and gas formations	[24] [30] [28] [29]
75	October 24, 1979 6:00 AM	Azgir	Guryev region, Kazakh SSR	980,0	33,00		Group blast in well No. A-10 (0.001-20 and 20-150 kt) to create cavities in rock salt massif	[24] [30] [28] [29]
76	June 16, 1980 4:00 PM	Butane	Bashkir ASSR, RSFSR	1400,0	3.20		Blast in well #1 to intensify production in oil and gas formations	[31] [30] [28] [32]
77	June 25, 1980 6:00 AM	Butane	Bashkir ASSR, RSFSR	1390,0	3.20		Blast in well #3 to intensify production in oil and gas formations	[31] [30] [28] [32]
78	October 8, 1980 6:00 AM	Vega-1T	<u>Astrakhan region</u> , RSFSR	1050,0	8.50	5.2	Explosion in well No. 1T to create cavities for gas storage	[31] [30] [28] [32]
79	November 1, 1980 1:00 PM	Batholith-1	Evenki Autonomous Okrug, RSFSR	720,0	8.00	5.2	Explosion in borehole No. BT-1 for the purpose of deep seismic sounding of the Earth	[31] [30] [28] [32]
80	December 10, 1980 7:00	Angara	Khanty-Mansiysk Autonomous Okrug, RSFSR	2485,0	15.00	4.6	Wellbore blasting to enhance production in oil and gas formations	[31] [30] [28] [32]
81	May 25, 1981 5:00 AM	Pyrite	<u>Nenets Autonomous Okrug</u> , RSFSR	1511,0	37.60	5.5	Explosion in a well to block gas fountains	[31] [30] [28] [32]
82	September 2, 1981 4:00	Helium-1	Perm region, RSFSR	2088,0	3.20	4.5	Blast in well #401 to intensify production in oil and gas formations	[31] [30] [28] [32]
83	September 26, 1981	Vega-4T	Astrakhan region, RSFSR	1050,0	8.50	5.3	Explosion in well No. 4T/2 to create	[31] [30] [33] [34]

No. ↕	Date and time ↕	Conventional name ↕	Venue ↕	H, m ↕	E, ct ↕	m _b ↕	Additional information	Notes
	5:00 AM						cavities for gas storage	
84	September 26, 1981 5:04	Vega-2T	Astrakhan region, RSFSR	1050,0	8.50	5.2	Explosion in well No. 2T/2 to create cavities for gas storage	[31] [30] [28] [32]
85	October 22, 1981 2:00 PM	Spat-2	Evenki Autonomous Okrug, RSFSR	581,0	8.50	4.9	Explosion in well No. SHP-2 for the purpose of deep seismic sounding of the Earth	[31] [35] [33] [34]
86	July 30, 1982 9:00 PM	Rift-3	<u>Ust-Orda Buryat Autonomous Okrug</u> , RSFSR	554.0	8.50	5.1	Explosion in borehole No. RF-3 for the purpose of deep seismic sounding of the Earth	[31] [35] [33] [34]
87	September 4, 1982 6:00 PM	Rift-1	Taimyr Autonomous Okrug, RSFSR	960,0	16.00	5.2	Explosion in borehole No. RF-1 for the purpose of deep seismic sounding of the Earth	[31] [35] [33] [34]
88	September 25, 1982 6:00 PM	Rift-4	Krasnoyarsk region, RSFSR	554.0	8.50	5.1	Explosion in borehole No. RF-4 for the purpose of deep seismic sounding of the Earth	[31] [35] [33] [34]
89	October 10, 1982 5:00 AM	Neva-1	Yakut ASSR, RSFSR	1502,0	15.00	5.3	Blast in well #66 to intensify production in oil and gas formations	[31] [35] [33] [34]
90	October 16, 1982 6:00 AM	Vega-7T	Astrakhan region, RSFSR	947,0	8.50	5.2	Explosion in well No. 7T to create cavities for gas storage	[31] [35] [33] [34]
91	October 16, 1982 6:05 AM	Vega-6T	Astrakhan region, RSFSR	991,0	8.50	5.2	Explosion in well No. 6T to create cavities for gas storage	[31] [35] [33] [34]
92	October 16, 1982 6:10 AM	Vega-5T	Astrakhan region, RSFSR	1100,0	8.50	5.2	Explosion in well No. 5T to create cavities for gas storage	[31] [35] [33] [34]
93	October 16, 1982 6:15 AM	Vega-3T	Astrakhan region, RSFSR	1057,0	13.50	5.4	Explosion in well #3T to create cavities for gas storage	[31] [35] [33] [34]
94	July 20, 1983 4:00 AM	Lira-1T	Ural region, Kazakh SSR	907,0	15.00	5.3	Blasting in well No. 1T to create cavities in rock salt massif for gas storage	[31] [35] [33] [34]
95	July 20, 1983 4:05	Lira-2T	Ural region, Kazakh SSR	917,0	15.00	5.3	Blasting in well #2T to create cavities in rock	[31] [35] [33] [36]

No. ↕	Date and time ↕	Conventional name ↕	Venue ↕	H, m ↕	E, ct ↕	m _b ↕	Additional information	Notes
							salt for gas storage	
96	July 20, 1983 4:10	Lira-3T	Ural region, Kazakh SSR	841,0	15.00	5.2	Blasting in well #3T to create cavities in rock salt for gas storage	[31] [35] [33] [36]
97	September 24, 1983 5:00 AM	Vega-8T	Astrakhan region, RSFSR	1050,0	8.50	5.1	Explosion in well No. 8RT to create cavities for gas storage	[31] [35] [33] [36]
98	September 24, 1983 5:05	Vega-9T	Astrakhan region, RSFSR	1050,0	8.50	5.0	Explosion in well No. 9RT to create cavities for gas storage	[37] [35] [33] [36]
99	September 24, 1983 5:10 AM	Vega-11T	Astrakhan region, RSFSR	920,0	8.50	4.9	Explosion in well No. 11RT to create cavities for gas storage	[37] [38] [33] [36]
100	September 24, 1983 5:15 AM	Vega-13T	Astrakhan region, RSFSR	1100,0	8.50	5.2	Explosion in well No. 13RT to create cavities for gas storage	[37] [38] [33] [36]
101	September 24, 1983 5:20 AM	Vega-10T	Astrakhan region, RSFSR	950,0	8.50	5.2	Explosion in well No. 10RT to create cavities for gas storage	[37] [38] [33] [36]
102	September 24, 1983 5:25 AM	Vega-12T	Astrakhan region, RSFSR	1100,0	8.50	5.2	Explosion in well No. 12RT to create cavities for gas storage	[37] [38] [33] [36]
103	July 21, 1984 3:00	Lira-4T	Ural region, Kazakh SSR	850,0	15.00	5.2	Blasting in well #4T to create cavities in rock salt for gas storage	[37] [38] [33] [36]
104	July 21, 1984 3:05	Lira-6T	Ural region, Kazakh SSR		15.00		Blast in well No. 6T to create cavities in rock salt massif for gas storage	[37] [38] [33] [36]
105	July 21, 1984 3:10	Lira-5T	Ural region, Kazakh SSR		15.00		Blast in well #5T to create cavities in rock salt for gas storage	[37] [38] [33] [36]
106	August 11, 1984 19:00	Quartz-2	Komi ASSR, RSFSR	759,0	8.50	5.3	Explosion in borehole No. K-2 for the purpose of deep seismic sounding of the Earth	[37] [38] [33] [36]
107	August 25, 1984 19:00	Quartz-3	Khanty-Mansiysk Autonomous Okrug, RSFSR	726,0	8.50	5.3	Explosion in well No. K-3 for the purpose of deep seismic sounding of the Earth	[37] [38] [39] [36]

No. ↕	Date and time ↕	Conventional name ↕	Venue ↕	H, m ↕	E, ct ↕	m _b ↕	Additional information	Notes
108	August 27, 1984 6:00 AM	<u>Dnepr-2</u>	Murmansk region, RSFSR	175,0	3.40	4.5	Double blast in the adit, 1.7 kt each, for the purpose of crushing the ore	[37] [38] [39] [36]
109	August 28, 1984 3:00 AM	Helium-2	Perm region, RSFSR	2065,0	3.20	4.4	Blast in well #402 to intensify production in oil and gas formations	[37] [38] [39] [36]
110	August 28, 1984 3:05	Helium-3	Perm region, RSFSR	2075,0	3.20	4.3	Blast in well #403 to intensify production in oil and gas formations	[37] [38] [39] [40]
111	September 18, 1984 9:00 PM	Quartz-4	<u>Kemerovo region</u> , RSFSR	557,0	10.00	4.9	Explosion in well No. K-4 for the purpose of deep seismic sounding of the Earth	[37] [38] [39] [40]
112	October 27, 1984 6:00 AM	Vega-14T	Astrakhan region, RSFSR	1000,0	3.20	5.0	Explosion in well No. 14RT to create cavities in rock salt massif for gas storage	[37] [41] [39] [40]
113	October 27, 1984 6:05 AM	Vega-15T	Astrakhan region, RSFSR	1000,0	3.20	5.0	Explosion in well No. 15RT to create cavities in rock salt massif for gas storage	[37] [41] [39] [40]
114	September 18, 1985 4:00 AM	Benzene	Khanty-Mansiysk Autonomous Okrug, RSFSR	2860,0	2.50		Wellbore blasting to enhance production in oil and gas formations	[37] [41] [39] [40]
115	July 18, 1985 9:15 PM	Agate	Arkhangelsk region, RSFSR	772,0	8.50	5.0	Explosion in a borehole for the purpose of deep seismic sounding of the Earth	[37] [41] [39] [40]
116	April 19, 1987 4:00 AM	Helium-4	Perm region, RSFSR	2015,0	3.20	4.5	Blast in well #404 to intensify production in oil and gas formations	[37] [41] [39] [40]
117	April 19, 1987 4:05	Helium-5	Perm region, RSFSR	2055,0	3.20	4.4	Blast in well #405 to intensify production in oil and gas formations	[37] [41] [39] [40]
118	July 6, 1987 0:00	Neva-2	Yakut ASSR, RSFSR	1502,0	15.00	5.1	Blast in well #68 to intensify production in oil and gas formations	[37] [41] [39] [40]
119	July 24, 1987 2:00 AM	Neva-3	Yakut ASSR, RSFSR	1515,0	15.00	5.1	Blast in well #61 to intensify production in oil	[37] [41] [39] [40]

No. ↕	Date and time ↕	Conventional name ↕	Venue ↕	H, m ↕	E, ct ↕	m _b ↕	Additional information	Notes
							and gas formations	
120	August 12, 1987 1:30 AM	Neva-4	Yakut ASSR, RSFSR	815,0	3.20	5.0	Explosion in well #101 to intensify production in oil and gas formations	[5][41][39][40]
121	October 3, 1987 15:15	Batholith	Aktobe region , Kazakh SSR	1002,0	8.50	5.2	Explosion in borehole No. BT-2 for the purpose of deep seismic sounding of the Earth	[5][41][39][40]
122	August 22, 1988 4:20 PM	Rubin-2	Yamalo-Nenets Autonomous Okrug, RSFSR	829,0	15.00	5.3	Explosion in borehole No. RN-2 for the purpose of deep seismic sounding of the Earth	[5][41][39][42]
123	September 6, 1988 4:20 PM	Rubin-1	Arkhangelsk region, RSFSR	820,0	8.50	4.8	Explosion in borehole No. RN-1 for the purpose of deep seismic sounding of the Earth	[5][41][39][42]

Comments

1. Earthquake magnitudes based on body (longitudinal) waves were determined using data from the National Earthquake Information Center or the International Seismological Center .

See also


- Nuclear explosions in Yakutia

Notes

1. Nuclear tests of the USSR, Vol. 1, 1997 , p. 165.
2. Nuclear tests of the USSR, Vol. 4, 2000 , p. 119.
3. Vasiliev A.P. [et al.], 2005 .
4. Andryushin I. A. [et al.], 2005 .
5. Nordyke MD, 2000 , p. A-6.
6. Nordyke MD, 2000 , p. A-1.
7. Peaceful Nuclear Explosions, 2001 , p. 478.
8. Peaceful Nuclear Explosions, 2001 , p. 479.
9. Nuclear tests of the USSR, Vol. 1, 1997 , p. 166.
10. Nuclear tests of the USSR, Vol. 4, 2000 , p. 120.
11. Peaceful Nuclear Explosions, 2001 , p. 480.
12. Peaceful Nuclear Explosions, 2001 , p. 481.
13. Nuclear tests of the USSR, Vol. 1, 1997 , p. 167.
14. Peaceful Nuclear Explosions, 2001 , p. 482.
15. Nuclear tests of the USSR, Vol. 4, 2000 , p. 121.
16. MD, 2000 , p. A-2.
17. Peaceful Nuclear Explosions, 2001 , p. 483.

18. [Nuclear tests of the USSR, Vol. 1, 1997](#) , p. 168.
19. [Peaceful Nuclear Explosions, 2001](#) , p. 484.
20. [Peaceful Nuclear Explosions, 2001](#) , p. 485.
21. [Nuclear tests of the USSR, Vol. 1, 1997](#) , p. 169.
22. [Nuclear tests of the USSR, Vol. 4, 2000](#) , p. 122.
23. [Peaceful Nuclear Explosions, 2001](#) , p. 486.
24. [Nurdyke MD, 2000](#) , p. A-3.
25. [Peaceful Nuclear Explosions, 2001](#) , p. 487.
26. [Nuclear tests of the USSR, Vol. 1, 1997](#) , p. 170.
27. [Peaceful Nuclear Explosions, 2001](#) , p. 488.
28. [Nuclear tests of the USSR, Vol. 4, 2000](#) , p. 123.
29. [Peaceful Nuclear Explosions, 2001](#) , p. 489.
30. [Nuclear tests of the USSR, Vol. 1, 1997](#) , p. 171.
31. [Nurdyke MD, 2000](#) , p. A-4.
32. [Peaceful Nuclear Explosions, 2001](#) , p. 490.
33. [Nuclear tests of the USSR, Vol. 4, 2000](#) , p. 124.
34. [Peaceful Nuclear Explosions, 2001](#) , p. 491.
35. [Nuclear tests of the USSR, Vol. 1, 1997](#) , p. 172.
36. [Peaceful Nuclear Explosions, 2001](#) , p. 492.
37. [Nurdyke MD, 2000](#) , p. A-5.
38. [Nuclear tests of the USSR, Vol. 1, 1997](#) , p. 173.
39. [Nuclear tests of the USSR, Vol. 4, 2000](#) , p. 125.
40. [Peaceful Nuclear Explosions, 2001](#) , p. 493.
41. [Nuclear tests of the USSR, Vol. 1, 1997](#) , p. 174.
42. [Peaceful Nuclear Explosions, 2001](#) , p. 494.

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Links

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